THEORETICAL COMPUTER SCIENCE
Logic, semantics and theory of programming

VOLUME 171, NUMBERS 1–2, 15 JANUARY 1997

Selected Papers on Uncertainty in Databases and Deductive Systems

Guest Editor: L.V.S. Lakshmanan

Abstracted/Indexed in: ACM Computing Reviews, Compuscience, Computer Abstracts, Current Contents: Engineering, Technology & Applied Science, Engineering Index/Compendex, INSPEC Information Services, Mathematical Reviews, Zentralblatt für Mathematik

CONTENTS

L.V.S. Lakshmanan
Preface 1

G. Ausiello and R. Giaccio
On-line algorithms for satisfiability problems with uncertainty 3

M. Koubarakis
The complexity of query evaluation in indefinite temporal constraint databases 25

P. Ruet and F. Fages
Combining explicit negation and negation by failure via Belnap's logic 61

B. Mobasher, D. Pigozzi and G. Slutzki
Multi-valued logic programming semantics: An algebraic approach 77

A. Nerode, J.B. Remmel and V.S. Subrahmanian
Annotated nonmonotonic rule systems 111

L. Nago and P. Haddawy
Answering queries from context-sensitive probabilistic knowledge bases 147

E. Zimányi
Query evaluation in probabilistic relational databases 179

J. Kohlas
Allocation of arguments and evidence theory 221

P. Chatalic, C. Froidevaux and C. Schwind
Graded hypothesis theories 247

P. Bosc, D. Dubois, O. Pivert and H. Prade
Flexible queries in relational databases – The example of the division operator 281

Contents EATCS Bulletin Number 60 303

Author Index Volume 171 307

THEORETICAL COMPUTER SCIENCE
Logic, semantics and theory of programming

VOLUME 171, NUMBERS 1–2, 15 JANUARY 1997

Selected Papers on Uncertainty in Databases and Deductive Systems

Guest Editor: L.V.S. Lakshmanan

Abstracted/Indexed in: ACM Computing Reviews, Compuscience, Computer Abstracts, Current Contents: Engineering, Technology & Applied Science, Engineering Index/Compendex, INSPEC Information Services, Mathematical Reviews, Zentralblatt für Mathematik

CONTENTS

L.V.S. Lakshmanan
Preface 1

G. Ausiello and R. Giaccio
On-line algorithms for satisfiability problems with uncertainty 3

M. Koubarakis
The complexity of query evaluation in indefinite temporal constraint databases 25

P. Ruet and F. Fages
Combining explicit negation and negation by failure via Belnap's logic 61

B. Mobasher, D. Pigozzi and G. Slutzki
Multi-valued logic programming semantics: An algebraic approach 77

A. Nerode, J.B. Remmel and V.S. Subrahmanian
Annotated nonmonotonic rule systems 111

L. Nago and P. Haddawy
Answering queries from context-sensitive probabilistic knowledge bases 147

E. Zimányi
Query evaluation in probabilistic relational databases 179

J. Kohlas
Allocation of arguments and evidence theory 221

P. Chatalic, C. Froidevaux and C. Schwind
Graded hypothesis theories 247

P. Bosc, D. Dubois, O. Pivert and H. Prade
Flexible queries in relational databases – The example of the division operator 281

Contents EATCS Bulletin Number 60 303

Author Index Volume 171 307